

SHCHELKUNOV, S.I. (Leningrad, ul. prof. Popova., d. 41/5, kv. 63)

Evolution of cellular structure in animal organisms. Arkh. anat.
gist. i embr. 34 no.1:3-15 Ja-F '57 (MLRA 10:5)

(CELLS

evolution of cell structure in animal organisms, review)

SHCHELKUNOV, S.I.

Answer to reviewers. Arkh.anat.gist. i embr. 34 no.5:117-124
S-O '57. (MIRA 11:1)
(HISTOLOGY)

SHCHELKUNOV, Serafim Ivanovich; MIKHAYLOV, V.P., red.; RULEVA, M.S.,
tekhn.red.

[Cellular theory and theories on tissues] Kletochnaia teoriia
i uchenie o tkaniakh. Leningrad, Gos.izd-vo med.lit-ry Medgiz,
Leningr.otd-nie, 1958. 223 p. (MIRA 12:12)
(CELLS) (TISSUES)

SHCHELKUNOV, S.I.

Asynchronous development of provisional and definitive structures as
a principle of histogenesis [with summary in English]. Trudy ISGMI
42:5-10 '58 (MIRA 11:12)

1. Zaveduyushchiy kafedroy gistologii i embriologii Leningradskogo
sanitarno-gigiyenicheskogo meditsinskogo instituta. Chlen-korrespondent
AMN SSSR.

(EMBRYOLOGY,
histogenesis, asynchronous development of provisional
& definite structures (Rus))

(SHCHELKUNOV, S.I., prof.

Polymorphism of the coelomic lining in amphibian; as a manifestation of metorisis [with summary in English]. Trudy IISGM 42:185-194 '58 (MIRA 11:12)

1. Zaveduyushchiy kafedroy gistologii i embriologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Chlen-korrespondent AMN SSSR.

(EMBRYOLOGY,

polymorphism of lining of celoma in amphibians as manifest of methorisis (Rus))

SHCHELKUNOV, S.I. (Leningrad) ul. prof. Popova, 41, kv. 63)

A.A.Zavarzin's concept of tissue evolution and some methods in
its further development. Arkh.anat.gist.i embr. 39 no.7:3-12 J1
'60. (MIRA 14:5)

(TISSUES)

(EVOLUTION)

SHCHELKUNOV, Serafim Ivanovich; GRIGOR'YEV, Nikolay Ivanovich;
SUGLITSKIY, A.Ye., red.; RULEVA, M.S., tekhn.red.

[Methodological manual for practical studies on histology]
Metodicheskoe posobie k prakticheskim zaniatiyam po gistologii.
Leningrad, Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nis, 1961.
129 p. (MIRA 14:4)

(HISTOLOGY--LABORATORY MANUALS)

SHCHELKUNOV, S. I.

"Reacuvite et plosticite he la paroi vasculaire"

Report submitted for the fourth Intl. Congress of Angiology
Prague, Czech, 3-9 Sep 61

SHCHELKUNOV, S.I. (Leningrad, 137, 81. prof. Popova, 41, kv. 63)

Reactivity and plasticity of the vascular wall and the endocardium.
Arkhnat.gist.i embr. 40 no.4:80-86 Ap '61. (MIRA 14:5)

1. Kafedra gistologii i embriologii (zav. - prof. S.I.Shchelnkov)
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.
(BLOOD VESSELS) (HEART)

ZHDANOV, D.A. , red.; ZAZENIN, N.I., red.; KAS'YANENKO, V.G., red.;
MIKHAYLOV, V.P., red.; BINEL'NIKOV, L.D. prof.,otv.red.; TORSKAYA,I.V.,
red.; SHCHELKUNOV, S.I., red.

[Transactions of the All-Union Congress of Anatomists, Histologists
and Embryologists]Trudy Vsesoyuznogo s"yezda anatomov, gistologov i
embriologov. Khar'kov, M-vo zdavookhraneniia SSSR. Vol.1. 1961.
943 p. (MIRA 15:10)

1. Vsesoyuznyy s"yezd anatomov, gistologov i embriologov. 6th, Kiev,
1958. 2. Predsedatel' Organizatsionnogo komiteta s"yezda anatomov,
gistologov i embriologov, Moskva (for Zhdanov). 3. Predsedatel'
Ukrainskogo nauchnogo obshchestva anatomov, gistologov i embriologov,
Kiev (for Kas'yanenko)
(ANATOMY---CONGRESSES) (HISTOLOGY---CONGRESSES)

SHCHELKUNOV, S.I. (Leningrad, ul. prof. Popova, 41/5, kv.63)

Some problems in evolutionary histology (on the 75th birthday
of A.A. Zavarzin). Arkh. anat. gist. i embr. 41 no.12:3-17
D '61. (MIRA 15:3)

1. Chair of Histology and Embryology, Leningrad S.M. Kirov
Military medical Academy.
(HISTOLOGY) (EVOLUTION)
(ZAVARZIN, ALEISEI ALEKSEEVICH, 1886-1945)

SHCHELKUNOV, S.I. (Leningrad, ul. prof. Popova, 41/5, kv.63)

Structure of the nucleus in the interkinetic period of cell
life. Arkh. anat., gist. i embr. 42 no.6:44-63 Je '62.

(MIRA 15:6)

1. Kafedra gistologii i embriologii (av. - chlen-korrespondent
AMN SSSR prof. S.I. Shchelkunov) Voenno-meditsinskoy ordena
Lenina akademii imeni S.M. Kirova.

(CELL NUCLEI)

SHCHELKUNOV, S.I. (Leningrad) (Leningrad, ul.prof.Popova, 41/5, kv.63)

Some characteristics of the cytogenesis and histogenesis of
malignant structures. Arkh.anat., gist i embr. 43 no.7:3-26 J1
'62. (MIRA 15:9)

(CARCINOGENESIS)

ZHDANOV, Dmitriy Arkad'yevich, doktor med. nauk, prof., red.;
ZAZYBIN, Nikolay Ivanovich, zasl. deyatel' nauki, doktor
med. nauk, prof., red.; KAS'YANENKO, Vladimir Grigor'yevich,
doktor nauk, prof., akademi, red.; MIKHAYLOV, Vladimir
Pavlovich, doktor biol. nauk, prof., red.; SINEL'NIKOV,
Rafail Davidovich, doktor med.nauk, prof., red.; TORSKAYA,
Iya Vladimirovna, kand. biol. nauk, st. nauchn. sotr., red.;
SHCHELKUNOV, Serafim Ivanovich, doktor nauk, prof., red.

[Transactions of the Sixth All-Union Congress of Anatomists,
Histologists and Embryologists] Trudy Vsesoyuznogo s"ezda
anatomov, gistologov i embriologov. Khar'kov, M-vo zdrazvo-
okhraneniia SSSR. Vol.2. 1961. 791 p. (MIRA 16:12)

1. Vsesoyuznyy s"yezd anatomov, gistologov i embriologov.
6th, Kiev, 1958. 2. Chlen-korrespondent AN SSSR (for Shchelnkunov,
Zhdanov, Zazybin). 3. Akademiya nauk Ukr.SSR i Institut zo-
ologii AN UkrSSR (for Kas'yanenko).

(Continued on next card)

ZHDANOV, Dmitriy Arkad'yevich --- (continued). Card 2.

4. Institut eksperimental'noy meditsiny AN SSSR (for Mikhaylov). 5. Kafedra normativnoy anatomii Khar'kovskogo meditsinskogo instituta (for Sinel'nikov). 6. Institut fiziologii im. A.A.Bogomol'tsa AN Ukr.SSR (for Torskaya).
(ANATOMY--CONGRESSES)
(HISTOLOGY--CONGRESSES)
(EMBRYOLOGY--CONGRESSES)

SHVETSKOV, A.I. (Leningra , ul. prof. Popova 41/5, kv.63)

Some problems of somatic cytogene is. i k . anat., gist. .
embr. 44 no.5:3-25 Ky '63. (MIRA 17:6)

1. kafedra gistologii i embriologii (nach. - chlen-korrespondent
Akad. nauk prof. A.I. Shvetsov) Voenno-meditsinskoy orodna
Leningrskiy institut A.I. Kirova, Leningrad.

SHCHELIMOV, S. I.; VASIL'YEVA, V. A.; GRENBERG, T. F.

"O osnovnykh khranovykh detsirovaniy."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences
Moscow, 3-11 Aug '64.

CHCHELKHOV, S.I. (Leningrad, ul. prof. Popova, 41/5, kv.63)

Evolution of somatic cytogeneris. A-ka. anat., gist. i emb. 47
no.8:3-17 Ag '64. (MIRA 18:4)

1. Kafedra fiziologii i embriologii (zav. - chlen-korrespondent
Sov. SSR prof. S.I.Shchekunov) Voenno-meditsinskoy akad.
Lenina akademii imeni Kirova.

SHCHELKUNOV, S.I.

Morphology of the interphase nucleus. Arkh. anat., gist.
i embr. 47 no.7:6-21 J1 ' 64.

1. Kafedra gistologii (nachalnik- chlen-korrespondent AMN
SSSR, prof. S.I. Shchelkunov) Voenno-meditsinskoy ordena
Lenina akademii imeni Kirova, Leningrad. Submitted June 27,
1963.

SHCHERBACH, V. A.

"An Integral Equation in Liernant-Stieltjes Integrals," Dok. AN, 19, No. 2, 1949. Libr.,
Central Asia State Univ., Tashkent, -cl949-.

SHCHELKUNOV, V.A.

One application of Gunter's integral equations. Trudy SAGU 17:
73-77 '50. (MLRA 9:5)

(Integral equations)

SHCHELKUNOV, V.A.

Application of Giunter's integral equations with a symmetric kernel.
Trudy SAGU no.36:101-107 '53. (MLRA 10:3)
(Integral equations)

SHCHELKUNOV, V.A.

Nonlinear integral equations in the Stieltjes' integrals. Trudy SAGU
no.54:69-74 '54. (MLRA 10:3)

(Integral equations)

POKHODNY, V.D., 1965.

Asymptotics for the reversibility of deformations of creep in the theory of aging. Stroi.konstr, no. 2:112-122 '65.

(MIRA 18:12)

1. Odeskkiy inzhenerno-stroitel'nyy institut i Novokafnovskiy obshchestvenno-tekhnicheskii fakul'tet.

SECHELKUNOV, V.G., inzh.

Stressed state of arched elements taking into account
protracted processes. Stroi.konstr. no.1:97-109 '65.
(MIRA 19:1)

1. Novokakhovskiy obsnchetekhnicheskii fakul'tet Odesskogo
inzhenerno-stroitel'nogo instituta.

SHCHELKUNOV, V.I.

In search of new ways. Ugol' Ukr. 7 no.11:6-9 N '63.

(MIRA 17:4)

1. Glavnyy inzh. tresta Antratsit.

SHCHELKUNOV, V.S.

All-Union symposium on the use of muscle relaxants. Vest. Khir.
91 no.10:135-138 0 '63. (MIRA 17:7)

SHCHELKUNOV, V. V.

20733. Shchelkunov, V. V., Krivonogov, N. I. i Skripov, N. I. O tipe ekipazha lokomotiva dlya dekovil'nykh Dorog. Sbornik nauch. -issled. Rabot (Arkhang. lesotekhn. in-T im Kuybysheva), XII, 1949, s. 5-31. —Bibliogr. 8nazv.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949.

ДОУМАНОВ, В. П.

25966 Додолжков, В. П. и Додолжков, В. П. и Сопровождающий движение полководца
со тави укало: аргументы и факты. Журнал науч.-исслед. работ (Арх.-ант.
исследов. ин-т им. Кузнецова), 1948, с. 33-34. --Библиогр: 6 назв.

СС: ЛИТО-Л. ПУМ-Л. ПУМ-Л. - Vol. 34, 1948, 1949

YERIPANOV, Boris Yefimovich, dotsent; IONOV, Boris Dmitriyevich, dotsent;
KORUNOV, M.M., prof., retsenzent; SHCHELKUNOV, V.V., dotsent,
retsenzent; SHCHENNIKOV, P.N., dotsent, retsenzent; SMIRNOV,
A.I., dotsent, red.; PITERMAN, Ye.L., red.izd-va; VDOVINA, V.M.,
tekhn.red.

[Road-building machinery in the forest industries and principles
of road building] Dorozhno-stroitel'nye mashiny v lesnoi pro-
myshlennosti i osnovy dorozhnogo dela. Moskva, Goslesbumizdat,
1961. 376 p. (MIRA 14:12)

1. Ural'skiy lesotekhnicheskiy institut (for Korunov). 2. Arkhan-
gel'skiy lesotekhnicheskiy institut (for Shchelnkov).
(Road machinery) (Wood-using industries)

KALININ, G.A., inzh.; SHCHELKUNOV, V.V., kand.tekhn.nauk

Determining the stresses experienced by the stock rail and switch
point. Vest.TSNII MPS 21 no.4:34-37 '62. (MIRA 15:6)

1. Arkhangel'skiy lesotekhnicheskii institut.
(Railroads--Rails) (Strains and stresses)

BLINOV, O.S.; PELEN'KIY, Ye.L.; BRAUSEVICH, S.T.; DOROKHOV, B.A.;
ZIGMUND, F.R.; ITSIKOV, G.B.; LEVER, A.A.;
LESHCH-BORISOVSKIY, A.I.; MURTZALIYEV, S.A.; PIIR, A.I.;
YUZHNIKIN, Ye.Ye.; YAKIMOV, I.D.; SHCHELKUNOV, V.V.,
retsenzent; GONCHAROV, A.F., otv. red.; KORCHUNOV, N.G.,
otv. red.; NIKOL'SKIY, B.V., otv. red.; POSTREMOV, G.A.
[deceased]; SLUTSKER, M.Z., red. izd-va; SHIBKOVA, R.Ye.,
tekhn. red.

[Lumbering; land transportation of timber] Lesozagotovki;
sukhoputnyi transport lesa. Spravochnik. Moskva, Gosles-
bumizdat, 1962. 504 p. (MIRA 16:7)
(Lumber—Transportation)

SHCHELKUNOV, Valentin Vasil'yevich; SKHPOV, Nikolay Ivanovich;
SMIRNOV, A.I., red.

[Effectiveness of the use of various types of logging roads]
Effektivnost' primeneniia razlichnykh tipov lesovoznykh do-
rog. Moskva, Goslesbumizdat, 1963. 110 p. (MIRA 17:4)

POPOV, Dmitriy Aleksandrovich prof. [deceased]; KORCHUNOV, Nikolay
Grigor'yevich prof.; KUKLINOV, Boris Alekseyevich, dots.;
MENSHUTKIN, Yakov Grigor'yevich, dots.; KUVALDIN, Boris
Ivanovich, dots.; ALYSHEV, Ivan Fedorovich, dots.; SHCHELKUNOV,
Valentin Vasil'yevich, dots.; NIKOL'SKIY, Boris Vasil'yevich,
dots.; KORUNOV, M.M., prof., retsenezent; DOROKHOV, B.A., red.

[Land transportation of lumber] Sukhoputnyi transport lesa. [By]
D.A.Popov i dr. Moskva, Goslesbumizdat, 1963. 863 p.

(MIRA 17:5)

SHCHELKUNOV, Ye. L., Candidate of Biol Sci (diss) -- "The interaction of the motor reflexes with various analysors in man". Leningrad, 1959. 22 pp (Leningrad Order of Lenin State U in A. A. Zhdanov), 150 copies (KL, No 22, 1959, 113)

SHCHELKUNOV, YE. L.

"Comparative Studies Concerned with the Central Effects of
Tofranil and Chloracizin (Motivation of the Trials with Chloracizin
as an antidepressant)"

paper presented at the Second Hungarian Conference of Therapy
and Pharmacological research, Budapest, Hungary, 2-7 Oct 62

Bechterew Psychoneurological Inst., Psychopharmacological
Laboratory, Leningrad.

SHCHELKUNOV, Ye.L.

Action of aminazine, chloracizine, phenamine and their combinations
on food and defense conditioned reflexes in rats in a labyrinth .
Zhur.vys.nerv.deiat. 12 no.1:173-180 Ja-F '62. (MIRA 15:12)

1. Laboratory of Pharmacology, Bechterev Psychoneurological
Institute and Laboratory of Pharmacology, Sechenov Institute of
Evolutionary Physiology, U.S.S.R. Academy of Sciences, Leningrad.
(CONDITIONED RESPONSE) (CHLORPROMAZINE)
(PHENAMINE) (PHENOTHIAZINE)

35203

S/246/62/062/002/003/006
1015/1215

AUTHOR Lapin, I. P., Khaunina, R. A. and Shchelkunov, Ye. L.

TITLE: The adrenalin, noradrenalin and phenamin effects influenced by tofranil

PERIODICAL Zhurnal nevroptologii i psikiatrii imeni S. S. Korsakova, v. 62, no. 2, 1962, 183-189

TEXT: The present study deals with the effect of tofranil on the central and peripheral adrenergic processes as well as on the central effect of phenamin (benzedrin). The experiments were carried out on cats and rabbits. The methods and techniques are described. In addition, the effect of tofranil on the group toxicity of phenamin was examined on albino male mice. It was found that the sensibilizing effect of tofranil to adrenalin and noradrenalin was not present in rabbits; therefore it was deduced to be an effect specific to certain species. Nor was this effect found in cases where the cocain effect had been successfully applied several times. As far as the central effect of tofranil is concerned, it increased the motor excitatory effect of phenamin. The authors conclude that this fact indicates the adrenergic mechanism of the central effect of tofranil in addition to its central analeptic effect. It was also found that tofranil and phenamin act synergistically. The different effect of small and large doses of tofranil on group toxicity of phenamin was assumed to indicate that the dual (positive and negative) effect of tofranil on adrenergic structures at the periphery was carried out also through the adrenergic synapses of the brain.

Card 1/2

The adrenalin, noradrenalin...

S. 246 62/062 002/003/006
1015/1215

ASSOCIATION: Laboratoriya psikhofarmakologii (Nauchnyy rukovoditel' I. P. Lapin) Nauchno-issledovatel'skogo psikhonevrologicheskogo instituta imeni V. M. Bekhtereva, Leningrad. (Laboratory of Psychopharmacology—scientific director I. P. Lapin. Psychoneurologic Research Institute imeni V. M. Bekhterev, Leningrad)

SUBMITTED July 1, 1961

Card 2/2

SHCHELKUNOV, Ye. L.

Trofanil and chlorpromazine potentiation of the reserpine effect of phenamine in experiments with conditioned reflexes in rats (On a pharmacological analysis of the antidepressive effects of chlorpromazine and tofranil). Aktiv. nerv. sup. 5 no.1:4-12 Ja '63.

1. Laboratoriya psikhofarmakologii, Psikhonevrologicheskiy institut im. V.M. Bekhtereva, Leningrad.

(IMIPRAMINE) (AMPHETAMINE) (RESERPINE)
(REFLEX CONDITIONED) (ANTIDEPRESSIVE AGENTS)
(PHENOTHIAZINES)

SHCHELKUNOV, Ye.L.

Statistical evaluation of the authenticity of the individual
effects of medicinal and other factors. Farmakol. toksik. 26
no.3:370-374 My-Je'63 (MIRA 17:2)

1. Laboratoriya psikhofarmakologii (zav. - I.P.Lapin) Psikho-
nevrologicheskogo instituta imeni V.M.Bekhtereva, Leningrad.

LOVYEN, I.V., inzh.; SHESTOLAILOV, V.N., inzh.; SHCHELKENOVA, A.M.

Standard water drainage equipment in Krivoy Rog Basin mines.
Shakht. stroi. 9 no.3:17-19 Mr '65. (MIRA 18:7)

1. Trest po proyektirovaniyu zhelezorudnykh predpriyatiy
Krivorozhskogo basseyna "Krivbassproyekt."

137-58-5-11136

Shchelkunova, A. N.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 319 (USSR)

AUTHORS: Dymov, A. M., Shchelkunova, A. N.

TITLE: The Employment of the Colorimetric Method in the Analysis of Iron Alloys (Kolorimetricheskiy metod v primeneni k analizu zheleznykh splavov)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii Ukr resp pravl, 1956. Vol 4 pp 32-37 Comments, p 38

ABSTRACT: The method, developed for the determination of small amounts of Mg in cast iron, is based on the formation of Mg hydroxy-quinolate followed by colorimetric analysis. A weighed portion of cast iron is dissolved in 50 cc of HCl (1:1). After oxidizing the solution with 2-3 cc of HNO₃ (specific gravity of 1.4) and evaporating it to dryness, HCl is added, and the resulting solution is boiled. After filtering out the precipitate, the filtrate is evaporated to dryness and the dry residue is treated with HCl. The basic amount of Fe is extracted with the aid of amylacetate. In order to remove the Fe entirely, 10 cc of 3% H₂O₂ are added together with an excess of a 25% solution of NH₄OH; the solution is heated for 15-20 minutes in a bath and is then filtered out. The

Card 1/2

137-58-5-11136

The Employment of the Colorimetric Method in the Analysis of Iron Alloys

combined filtrates are evaporated to dryness and heated in order to remove the ammonium salts. After treating the dry residue with H_2O , to which 3 drops of 2-N H_2SO_4 have been added, the MnO_2 which has separated out is filtered off. The Mg in the filtrate is precipitated by the action of a 2% alcohol solution of hydroxyquinoline in the presence of NaOH and sodium tartrate. The residue is dissolved in 0.1-N CH_3COOH and is analyzed colorimetrically. Another approach is also recommended, the solution, freed of Fe and other elements, is diluted to 100 cc; bromthymol blue is added and the solution is neutralized with a 2-N NH_4OH solution; Mg and Fe are then precipitated with the aid of a 2% alcohol solution of hydroxyquinoline. The Mg hydroxyquinolate of the filtrate is precipitated in an alkaline medium in the presence of tartrate. The precipitate is dissolved in 0.1-N solution of CH_3COOH and the Mg is analyzed colorimetrically. The relative error amounts to 1.5-3.5%. See also RzhMet, 1957, Nr 7, abstract 13656.

1. Iron alloys--Analysis 2. Colorimetry--Applications

Yu. B.

Card 2/2

DYMOV, A.M., professor, doktor khimicheskikh nauk; ~~SHCHEIKUNOVA, A.N.~~
assistant.

Colorimetric method for the analysis of iron alloys. Sbor. Inst.
stali no.35:417-432 '56. (MLRA 10:8)

1. Kafedra analiticheskoy khimii.
(Iron alloys--Analysis) (Colorimetry)

PROKOPENKO, L.I., kandidat meditsinskikh nauk (Moskva); MERINOV, V.A.
(Molotov); SHCHELKUNOVA, F.N. (Moskva)

Prevention of parasitic diseases in districts of virgin and idle
lands. Fel'd. i akush. 21 no.5:14-18 My '56. (MLRA 9:8)
(COMMUNICABLE DISEASES). (PARASITOLOGY)

FASTOVSKAYA, E.I.; LYSENKO, A.Ya.; SHCHELKUNOVA, F.N.

Investigations of methods of radical chemoprophylaxis and of complete cure of tertian malaria with short and long incubation periods.
Report no.7: Results of using quinocide in the treatment of tertian malaria with various possibilities of reinfection. Med.paraz. i paraz. bol. 25 no.3:222-226 J1-S '56.
(MLRA 9:10)

1. Iz otdeleniya epidemiologii malyarii i organizatsii bor'by s malyariy i drugimi parazitarnymi zabolevaniyami Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (dir. inst. prof. P.G.Sergiyev, zav. otdelom - dotsent M.G.Rashina)

(ANTIMALARIAIS, therapeutic use,
quinocide in tertian malaria (Rus))

SHMELEVA, V.A.; ZOBOV, Ye.V.; SHCHELKUNOVA, M.S.; Prinimala uchastiye:
MEL'NIKOVA, S.N.

Using the electrophoresis method for determining the washing
away of epoxy resin hardeners from the protective coatings
of wine vessels. Lakokras.mat.i ikh prim. no.5:50-52 '62.
(MIRA 16:1)

(Wine--Analysis) (Electrophoresis) (Protective coatings)

ZOBOV, Ye. V.; SHCHELKUNOVA, M. S.; Prinsipala uchastiye: BABANOVA,
Zh. I., laborant

Use of stilbazole in the photocolometric determining of
aluminum in wine and juices. Trudy MNIIPP 1:137-140 '61.
(MIRA 16:1)

(Aluminum—Analysis) (Grape juice)
(Wine)

SHMELEVA, V.A.; SHCHELKUNOVA, M.S.; ZOBOV, Ye.V.

Aluminum in the wines of Moldavia. Trudy MNIIPP 2:37-42 '62.
(Moldavia—Wine and wine making) (Aluminum) (MI-A 1614)

SHMELEVA, V.A.; SHCHELKUNOVA, M.S.; ZOBOV, Ye.V.

Aluminum in the wines of Moldavia. Trudy MNIIPP 2:37-42 '62.
(MIRA 16:4)

(Moldavia--Wine and wine making) (Aluminum)

TELEPNEVA, A.Ye.; AVERBUKH, T.D.; BLINOVA, E.P.; MATUSEVICH, V.S.;
SHCHELKUNOVA, N.V.; BASHKIROVA, Ye.M.

Processing of waste thiosulfate liquors produced in the removal
of hydrogen sulfide from gases. Koks i khim. no.12:40-44 '60.
(MIRA 13:12)

1. Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut (for
Bashkirova).
(Sewage—Purification) (Sodium thiosulfate)

SHCHELKUNOVA, O. V., CAND CHEM SCI, "A ^{INTL} STUDY OF CONVERSIONS
OF PRIMARY AND TERTIARY γ -GLYCOLS ~~TO~~ OXYHETEROCYCLES." LE-
NINGRAD, 1961. (MIN OF HIGHER AND SEC SPEC ED RSFSR. LENIN-
GRAD ORDER OF LABOR RED BANNER TECHNOL INST IMENI LENSOVET).
(KL-DV, 11-61, 211).

-52-

ROSTOVSKIY, Ye.N.; SHCHELKUNOVA, O.V.; BONDAREVA, N.S.

Reactions of polyvinylchloracetate with some amines. Vysokom.
soed. 3 no.7:971-975 J1 '61. (MIRA 14:6)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Acetic acid) (Amines)

L 34117-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 RPL - WN/GS/RH
 S/0000/64/000/000/0151/0155

ACCESSION NR: AT4049854

AUTHOR: Rostovskiy, Ye. N.; Shchelkunova, O. V.; Bondareva, N. S.

TITLE: Arbuzov rearrangement of triethylphosphite during its reaction with
chlorine-containing polymers

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties
 and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964,
 151-155

TOPIC TAGS: Arbuzov rearrangement, triethylphosphite, chlorinated polymer, poly-
 vinylchloroacetate, polyvinylchloride, acrylic acid chloroanhydride, methacrylic
 acid, polymethylchloroacrylate

ABSTRACT: Linear, phosphorus-containing polymers were obtained by the reaction
 of triethylphosphite with chlorine-containing polymers, such as polyvinylchloro-
 acetate, polyvinylchloride, the polymer of the chloroanhydride of acrylic acid
 or methacrylic acid and polymethyl- α -chloroacrylate. The reaction schemes
 are given. Depending on time (50,75,100 hrs) and temperature (100,120,150C),
 polymers or copolymers with different phosphorus contents were obtained. The

Card 1/2

L 34117-65

ACCESSION NR: AT4049854

2

experimental data are tabulated. It was found that if the chlorine atom in the polymer was directly bound to the carbon of the main macromolecular chain, its reactivity in the Arbuzov rearrangement with triethylphosphite decreased considerably. This result agrees with the data available, according to which secondary alkylhalides do not initiate Arbuzov rearrangements, and is obviously explained by the low mobility of the Cl atom in polyvinylchloride. During the reaction of polyvinylchloride in dioxane, no isomerization of phosphite was found. The reaction of triethylphosphite with polyvinylchloroacetate and polymeric chloroanhydrides of acrylic and methacrylic acid gave linear polymeric derivatives of alkylphosphinic acid or their copolymers with the initial chloride (not previously described in the literature) with high degrees of conversion, 92-95%. The properties of these phosphorus-containing polymers were studied in detail. The conditions of preparation and polymerization of the various compounds are described in detail. Orig. art. has: 1 table and 3 formulas.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR (Macromolecular compounds institute, AN SSSR)

SUBMITTED: 08Oct62

ENCL: 00

SUB CODE: OC

NO REF SOV: 006

OTHER: 011

Card 2/2

L 41164-65 EWT(m)/EPF(c)/EWA(d)/EWP(j)/T/EWP(t)/EWP(b) Pc-4/Pr-4
ACCESSION NR: AP5007167 JD/WB/RM S/0286/65/000/003/0038/0038

AUTHOR: Zobov, Ye. V.; Rud', G. Ya.; Shchelkunova, M. S.; Dyul'ger, T. B. 26
B

TITLE: A/method for protection of metal and concrete surfaces. Class 22, No. 167924 16

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 38

TOPIC TAGS: resin/ ED-5 resin, ED-6 resin

ABSTRACT: This Author's Certificate introduces a method for protecting metal and concrete surfaces by the application of a primer based on ED-5¹² resin, a hardener and filler followed by the application of a finish coat based on ED-6 resin with a hardener and filler. The coating surface is then toughened by heating to 140°C. In order to prevent extraction of the hardener from the lacquer surface by nutritive atmospheres [sic], a three-step process is used in hardening: first 20°C for 12 hours, then 60°C for 3 hours and finally 140°C for 3 hours.

ASSOCIATION: none

Card 1/2

SUBMITTED: 27 Nov 61

LOYTSYANSKAYA, M.S.; SHCHELKUNOVA, S.A.

Effect of phosphorus on the multiplication and oxidizing activity
of *Badgerium Schutzenbachii* in alcohol and glucose oxidation. Uch.
zap.Len.un. no.216:98-103 '56. (MLRA 10:3)
(ACETOBACTER) (PHOSPHORUS) (OXIDATION)

SHCHELKUNOVA, S.A.

Development of Acetobacter suboxydans and Acetobacter melano-
genum in media containing ethyl alcohol. Mikrobiologii 31
no.3:507-514 My-Je '62. (MIRA 15:12)

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.
(ACETOBACTER) (ETHYL ALCOHOL)

SHCHELKUNOVA, S.A.

Effect of phosphates on the reproduction and sorbitol oxidation
of acetic acid bacteria. Mikrobiologiya 32 no.3:529-535
My-Je'63 (MIRA 17:3)

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.

DOLGO-SOBUROV, B.A., professor, redaktor; GERBIL'SKIY, N.L., redaktor;
GRIGOR'YEVA, T.A., redaktor; YELISEYEV, V.G., redaktor; ZHDANOV,
D.A., redaktor; KNOPPE, A.G., redaktor KUPRIYANOV, V.V., redaktor;
MIKHAYLOV, V.P., redaktor; PRIVESA, M.G., redaktor; STUDITSKIY, A.N.,
redaktor; SHCHELKUNOVA, S.I., redaktor; KHARASH, G.A., tekhnicheskii
redaktor

[Problems in the morphology of the nervous system] Problemy morfologii
nervnoi sistemy [Leningrad] Gos. izd-vo med. lit-ry, Leningradskoe
otd-nie, 1956. 179 p. (MIRA 10:2)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for
Dolgo-Soburov)
(NERVOUS SYSTEM)

GUSEV, A.S. (Leningrad, Sotsialisticheskaya ul., 8, kv.7); SHCHELKUNOVA,
T.N. (Leningrad, ul. prof. Popova, 41/5, kv.63)

G.V. Shor's method for the preparation of some anatomical preparations for teaching purposes. Arkh.anat.gist.i embr. 37 no.11: 109-113 N '59. (MIRA 13:4)

1. Kafedra normal'noy anatomii (nachal'nik - chlen-korrespondent prof. B.A. Dolgo-Saburov) Voenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.
(ANATOMY)

SHCHELMANOV, N.V.

Making burrs for the construction of grinders. Bum.prom. 32
no.3:21 Mr '57. (MLRA 10:4)

1. Starshiy master mekhanicheskogo tsekha Balakhninskogo tsellyu-
lozno-bumazhnogo kombinata.
(Grinding machines)

SHCHELMANOV, N.V., starshiy master

New design for the chisels of pneumatic hammers. Bum. prom. 36
no.7:21 J1 '1. (MIR 14:9)

1. Balakhninskiy kombinat.
(Pneumatic tools)

16.4600

S/020/60/132/01/18/064

AUTHOR: Shchel'nov, V.A.

TITLE: Many-valued Linear Operators in a Locally Convex Space

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 1, pp 75-77

TEXT: Let X and Y be locally convex spaces. Every set of the product (X, Y) can be understood as a diagram Γ_A of a certain operator A with the region of definition $D_A \subset X$ and the range of values $R_A \subset Y$. A is called linear if Γ_A is a linear set. A linear operator A is called open if transfers every zero neighborhood in D_A into a zero neighborhood of R_A . Let the closure \bar{A} of A be defined as an operator the diagram of which is the closure of the diagram of A . If M is a vector space in X , X^* is the space conjugated to X , then M^0 denotes a vector space in X^* which is orthogonal to M . In five long theorems the author formulates several properties of the considered operators, e.g.:

Theorem 4: Let X be a Frechet-space; let M and N be vector subspaces in X ; M_1 and N_1 - vector subspaces in X^* .

1°. If $M + N$ is closed, then $M^0 + N^0$ is weakly closed;

Card 1/2



Many-valued Linear Operators in a Locally
Convex Space

S/020/60/132/01/18/064

2°. If $M_1 + N_1$ is weakly closed, then $M_1^0 + N_1^0$ is closed ;

3°. If X is a Banach space, then the sum $M^0 + N^0$ is weakly closed then and only then if it is strongly closed.

There is 1 non-Soviet reference.

PRESENTED: December 28, 1959, by V.I. Smirnov, Academician

SUBMITTED: December 1, 1959



Card 2/2

PTASHOK, S.; ZATOKOVENKO, V.; SHCHELOCHEK, A.

Carrying out measures for the improvement of sanitation in
medical institutions. Zdravookhranenie 3 no.2:62-64 Mr-Ap
'60. (MIRA 13:7)

1. Glavnyy vrach Floreshtskogo rayona (for Ptashok). 2. Zame-
stitel' glavnogo vracha po sanitarno-epidemiologicheskoy chast
(for Zatokovenko).
(FLORESHTY--MEDICAL CENTERS--SANITATION)

SHCHERBLOCHKOVA, S.P.; MAKARTSEVA, T.V.; GARSHIN, Ye.A.; MOISEYEVA, Ye.I.;
BLAGODAROVA, T.N.; MAKAROVA, L.I.; MEL'NIKOVA, R.M.; REVIKOVA, V.Ye.;
YUSHEVICH, G.I.; YEVPRYNTSEVA, Z.A.; GALYAMOVA, M.F.; DROMOVA, L.M.;
SALIKOVA, V.N.; KONNOV, F.Ye., red.; ANTONOV, V.P., tekhn.red.

[Economy of the province and city of Kuybyshev; a statistical
manual] Narodnoe khoziaistvo Kuibyshevskoi oblasti i goroda Kuibysheva;
statisticheskii sbornik. Kuibyshev, Kuibyshevskoe otd-nie Gosstat-
izdata, 1957. 197 p. (MIRA 11:3)

1. Kuybyshevskaya oblast'. Statisticheskoye upravleniye. 2. Statisti-
cheskoye upravleniye Kuybyshevskoy oblasti (for all, except Konnov,
Antonov)

(Kuybyshev Province--Statistics)

SHCHELOKOV, A.

A great life of work. Avt. transp. 41 no.12:6-7 D '63.
(MIRA 17:1)

BRASLAVSKIY, M.; SHCHELOKOV, A.; BLATNOV, M.; STROGANOVA, V.; BABKOV,
Ye.

Information. Avt. transp. 42 no. 5:55-58 My '64. (MIRA 17:5)

1. Glavnyy inzh. Tsentral'nogo konstruktorskogo byuro Ministerstva
avtomobil'nogo transporta i shosseynykh dorog RSFSR (for Babkov).

SOV/112-53-2-1873

Translation from: Referativnyi zhurnal. Elektrotekhnika, 1958, Nr 2, p 12 (USSR)

AUTHOR: Stachelokov, A. D.

TITLE: On the Problem of X-ray Influence on Electric Conductance
(K voprosu o vliyaniyakh rentgenovskikh luchey na elektroprovodnost')

PERIODICAL: Izvestiya Tomskogo politekhn. instta. 1958, Vol 91, pp 391-398

ABSTRACT: Electric conductance of natural NaCl single crystals has been studied under the influence of x-rays of various intensities and at various temperatures. In unexposed and aged specimens, the electric conductance is due to ions, and the effect of temperature on conductance obeys an exponential law. Under irradiation conditions, an electronic component of conductance is added, this component being larger with lower temperature and higher intensity of irradiation. As the ionic current grows very quickly with temperature increase, while the electronic current grows slowly, no effect of x-ray on electric conductance of a NaCl crystal has been observed at high temperatures. Bibliography: 18 items. Tomskiy politekhn. inst (Tomsk Polytechnic Institute), Tomsk.

K.A. Ye.

Card 1, 1

SHCHELOKOV, A.D.

X-ray absorption in crystals of alkali metal halides. Izv. TPI
95:296-301 '58. (MIRA 14:9)

1. Predstavleno professorom doktorom A.A.Vorob'yevym.
(X-ray absorption) (Alkali metal halide crystals)

SHCHELOKOV, A.D.

X-ray absorption in solid solutions of alkali metal halides. Izv.
TPI 95:302-305 '58. (MIRA 14:9)

1. Predstavleno professorom doktorom A.A.Vorob'yevym.
(X-ray absorption) (Alkali metal halides) (Solution, Solid)

SHCHELOKOV, A.D.

Photo-emf generated in the electromagnetic irradiation of an insulated metallic body. Part 1. Izv.vys.uch.zav.; fiz. no.4:33-40 '62. (MIRA 15:9)

1. Tomskiy politekhnicheskii institut imeni S.M. Kirova.
(Photoelectricity)

SHCHELOKOV, A.D.

Equations for photoelectric devices. Part 3. Izv.vys.ucheb.zav.;
fiz.no.2:53-60 '63.

(MIRA 16:5)

1. Tomskiy politekhnicheskiy institut imeni SM.Kirova.
(Electronic apparatus and appliances)
(Equations)

SHCHELOKOV, A.I., mladshiy nauchnyy sotrudnik

Interception layer in the lower atmosphere over Mirnyy
(according to 1961 data). Inform. biul. Sov. antark. eksp.
no.35:26-27 '62. (MIRA 16:11)

1. Shestaya kontinental'naya ekspeditsiya.

POGODIN-ALEKSEYEV, G.I.; SHCHELOKOV, K.F.

Forming cast metal-oxide compositions with the help of ultrasonic
waves. Lit. proizv. no.8:26-27 Ag '63. (MIRA 16:10)

SHCHELOKOV, I., inzh.-podpólkovnik

What innovators and inventors should know. Voen.-inzh.zhur. 96 no.9:
38-41 S '52. (MIRA 12:3)

(Inventions)

SHCHERLOKOV, M. (Ul'yanovsk).

With a certificate from the Ul'yanovsk Aviation School. Grazhd. av.
no. 4:3-5 Ap'57. (MIRA 10:6)
(Ul'ianovsk--Aeronautics--Study and teaching)

СМОТРИНОВ, И.

27112

Zvezdy dnfassa. (O znatnykh tsakhterakh ocherk). Ogonek, 1949, No 35, c 15-16

6. Metallurgiya. Metallovedeniye
A. Obshchie Voprosy

SO: IRTOPIS' No. 34

SHCHELOKOV, A.

Shchelokov, A. - "The large locomotive", (The Locomotive-Building Plant i-eni Kuybyshev, outline), Orenok, 1949, No. 17, p. .

SO: U-4110, 17 July 53, (Letonia 'Zhurnal 'nykh Statey, No. 12, 1949).

SHCHELOKOV, Mikh.

Store of communist labor. Sov. targ. 33 no. 4:26-29 Ap '60.

(MIRA 14:5)

(Moscow-Vegetable trade) (Moscow-Fruit trade)

30(1)

PHASE I BOOK EXPLOITATION

SOV/~~1972~~

Shchelokov, N. A.

Promyshlennost' Moldavskoy SSR (Industry of the Moldavian SSR) Kishinev, Gos.
izd-vo Moldavii, 1957. 113 p. 3,000 copies printed.

Eds.: V. Gal'perin, and B. Litvak; Tech. Ed.: V. Kapitsa

PURPOSE: This booklet is intended for the general reader interested in the
industrial growth of the Moldavian SSR.

COVERAGE: This book is divided into 14 sections each dealing with a different
branch of industry in the Moldavian SSR. The author describes the development
and growth of industry in this area especially from 1940 to 1956. Special
emphasis is placed on light industry and the food industry. There are no
personalities mentioned. No references are given.

TABLE OF CONTENTS:

Introduction

3

Card 1/3

SHCHELOKOV, Nikolay Anisimovich

[Moldavian S.S.R.; an account of the seven-year plan] Moldavskaya
SSR; rasskaz o semiletke. Moskva, Trudrezervizdat, 1959. 94 p.
(MIRA 13:4)

(Moldavia--Economic policy)

SHCHELOKOV, N.A.; GAL'PERIN, V., red.; SHEKHTER, D., tekhn.red.

[Industry of the Moldavian S.S.R.] Promyshlennost' Moldavskoi
SSR. Kishinev, Gos.izd-vo "Kartia moldoveniaske," 1960. 117 p.
(MIRA 13:7)

(Moldavia--Industries)

SHCHELOKOV, N.A.

Development of electrical equipment industry in Moldavia. Vest.
elektroprom. 33 no.3:1-3 Mr '62. (MIRA 15:3)

1. Zamestitel' predsedatelya Soveta Ministrov Moldavskoy SSR.
(Moldavia--Electric equipment industry)

18. The following information is being provided to you for your information only. It is not to be used for any other purpose.

19. The following information is being provided to you for your information only. It is not to be used for any other purpose.

SHCHELOKOV, N. A. (Head Veterinary Doctor of the Przheval'sk District, Kirghiz SSR)

"Working experience of veterinary specialists of the Przheval'sk District"

Veterinariya, vol. 39, no. 8, August 1962 pp..17

SHCHELOKOV, N.A.; MATVEYEV; SYURIN, V.N.,prof.; ZHELANOV, I.I.

In the Soviet Union. Veterinariia 35 no.12:81-83 D '58.

(MIRA 11:12)

(Veterinary medicine)

ELLERT, G.V.; SHCHELOKOV, R.N.

"The actinide elements." G.T. Seaborg, J.I. Katz, eds.
Reviewed by G.V. Ellert, R.N. Shchelokov. Zhur.neorg.khim.
1 no.7:1688-1693 J1.'56. (MLRA 9:11)

(Actinide series)
(Seaborg, G.T.) (Katz, J.I.)

SHCHELOKOV, R.N.; ELLERT, G.V.

"Handbook of preparatory inorganic chemistry" (edited by G.Brauer;
translated from German by B.M.Berkengeim). Reviewed by R.N.
Shchelokov, G.V.Ellert. Zhur.neorg.khim. 2 no.7:1709-1710 J1 '57.
(MIRA 10:11)

(Chemistry, Inorganic)

(Berkengeim, B.M.)

CHERNYAYEV, I.I.; GOLOVNYA, V.A.; SHCHELOKOV, R.N.

Dioxalateuranylammonium hydrates. Zhur. neorg.khim. 2 no.8:1763-
1767 Ag '57. (MIRA 11:3)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova
AN SSSR.

(Ammonium compounds) (Hydrates)

NAME I BOOK EXTENSION

307/5084

International Conference on the Peaceful Uses of Atomic Energy. 24, Geneva, 1955.

Radially sovetskikh ucheyiya. [i.e.] Khimika radioisotopov i radiatsionnykh prevrashcheniy (Reports of Soviet Scientists. V. 4: Chemistry of Radioelements and Radiation Transformations) Moscow, Atomizdat, 1959. 333 p. 8,000 copies printed. (Series: Its: Trudy)

Ed. (Title page): A. P. Vinogradov, Akademicheskii; Ed.: V. I. Lebedev; Tech. Ed.: Ye. I. Masol'.

PURPOSE: This collection of articles is intended for scientists and engineers interested in the applications of radioactive materials in science and industry.

CONTENTS: The book contains 26 separate studies concerning various aspects of the chemistry of certain radioactive elements and the processes of radiation effect on matter. These reports discuss present-day methods of reprocessing irradiated nuclear fuel, research in the chemistry of mercury, thorium, uranium, plutonium, and americium, problems related to the sorption and burying of radioactive wastes, the radiolysis of aqueous solutions and of organic compounds, the mechanism of polymer chain grafting, and the effect of radiation on natural and synthetic rubbers. V. N. Prusakov edited the present volume. Most of the reports are accompanied by references. Contributors to individual investigations are mentioned in annotations to the Table of Contents.

TABLE OF CONTENTS:

Vinogradov, A. P. Neutronics and the Earth's Crust (The Geochemistry of Isotopes) (Report No. 252)	3
Savchenko, V. B., N. G. Poritskiy, and A. Z. Solovkin. Some Special Problems in the Reprocessing of Irradiated Heat-Producing Elements of the First Atomic Electric Power Plant of the USSR (Report No. 2155)	23
[The following personalities are mentioned as having taken part in this investigation: N. M. Indikov, R. F. Lushchikova, Ye. V. Uralovskiy, Z. N. Zvetkova, and V. V. Chubukov.]	
Mironov, V. M., and M. E. Kozlovskaya. Separation of Uranium and Plutonium From Fission Products by Extraction With a Mixture of Diethyl Ether and Carbon Tetrachloride (Report No. 2216)	34
Vodovskoy, V. M. Distribution of Fragmentation Elements in the Process of the Ether Extraction of Uranium and Plutonium (Report No. 2206)	41
Prusakov, V. N., N. F. Slonovskiy, and N. M. Tret'yakov. Dry Method of Separating Irradiated Uranium (Report No. 2233)	49
[The authors thank I. E. Kaban and A. E. Kabanovich.]	
Brezhnev, M. Ye., V. I. Levin, G. V. Korotkiy, N. M. Medvedev, E. E. Bogachev, L. M. Kabanovich, and G. F. Vityazev. Separation of Fragmentation Radioactive Elements (Report No. 2259)	57
[The authors thank S. Z. Rodinskiy, Corresponding Member AS USSR.]	
Pyshchikov, D. I., N. M. Belyavskiy, and Yu. S. Solov'yenko. Separation of Individual Rare Earth Elements (Report No. 2231)	75
Khokhlov, B. P., and V. I. Pavlovskaya. Using Ion-Exchange to Study the State of Radioactive Substances in Solution (Report No. 2204)	69
Chernyshev, I. I., V. A. Golovinskiy, G. V. Klyuz, R. N. Shchegolev, and V. P. Markov. Contribution to the Problem of the Structure of the Complex Compounds of Uranium (Report No. 2151)	93
[The individual studies of the following researchers have been included in the last part of this report: Ye. S. Tretyakov, L. E. Shubochkin, Z. V. Serebryakova, and I. V. Tsipkina.]	
Chernyshev, I. I., V. A. Golovinskiy, and A. E. Medvedev. Complex Carbonate Compounds of Thorium (Report No. 2156)	125
[A. M. Babitskiy is mentioned for his part in this study.]	

21(1)
AUTHORS: Ellert, G. V., Shchelokov, R. N. (Abstracters) SOV/78-4-5-46/46

TITLE: The Chemistry of the Actinide Elements, Josef I. Katz, Glehn T. Seaborg, London 1957 (Dzh. Kats, G. Siborg. Khimiya aktinidnykh elementov, London, 1957)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 5, pp 1217-1221 (USSR)

ABSTRACT: This article is a criticism and short description of the book mentioned in the title, which is a revised edition of the book "Actinide Elements" published in 1954 and edited by the authors of the present work (translated into Russian in 1955). The technological part of the book was extended (compared to the earlier edition); it deals with the separation and purification of actinide elements, the authors basing upon the material obtained at the I. International Conference on the Peaceful Uses of Atomic Energy. A short summary is given of the contents of each chapter. The last chapter, which deals with trans-curie elements which are discussed individually, is also in the new edition dealt with in detail, and the elements Bk, Cf, E, Mv, and 102 (nobelium) are discussed. After discussion of the contents, it is further pointed

Card 1/2

SOV/78-4-5-46/46
The Chemistry of the Actinide Elements, Josef I. Katz; Glenn T. Seaborg,
London 1957

ed out that the last element (102) was obtained also in the Soviet Union by G. N. Flerov by the intense bombardment of Pu^{241} by fivefold-charged O^{16} -ions. In conclusion, the book is described as being of value not only for a systematical investigation of the chemistry and technology of actinide elements, but that it is also an excellent textbook for students wishing to devote special attention to the field of the chemistry of nuclear materials. A translation into the Russian language is recommended.

Card 2/2

USCOMM-DC-61,251

S/078/60/005/007/022/043/XX
B004/B060

AUTHORS: Chernyayev, I. I., Golovnya, V. A., Shchelokov, R. N.

TITLE: Aquo-oxalato Sulfate Compounds of Uranyl

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 7,
pp. 1454 - 1466

TEXT: The main results of this study were submitted to the Second International UNO Conference on the Peaceful Use of Atomic Energy. The authors first point out the difficulties involved in the synthesis of mixed acido complexes of uranyl which account for the scarceness of data available. In the work concerned here the authors started by investigating the possibility of substituting addenda by others (for the purpose of finding the rules governing relationships), and obtained the following series: CO_3^{2-} , F^- , $\text{C}_2\text{O}_4^{2-}$, SO_4^{2-} . On the basis of the result obtained, the mixed acido complexes were synthesized by addition reactions. The authors started from $\text{UO}_2\text{C}_2\text{O}_4 \cdot 3\text{H}_2\text{O}$ which was reacted with alkali sulfate, and obtained the oxalate-sulfate compounds of UO_2 . For comparison, pure

Card 1/4

Aquo-oxalato Sulfate Compounds of Uranyl

S/078/60/005/007/022/043/XX
B004/B060

oxalate complexes were synthesized from uranyl oxalate and alkali oxalate, and pure sulfate complexes from uranyl sulfate and alkali sulfate. The following compounds were obtained: 1) $K_2 [UO_2(C_2O_4)(SO_4)(H_2O)_2] \cdot H_2O$. The thermogram of this compound allows two effects to be identified: separation of the three H_2O molecules at $70 - 125^\circ C$, and destruction of the oxalate groups at $305 - 320^\circ C$. At $150^\circ C$, this substance loses all three H_2O molecules, which, however, are again added on standing in the air; this was confirmed both gravimetrically and analytically (Table 2). 2) $K_2 [UO_2(C_2O_4)_2(H_2O)_2] \cdot H_2O$. This compound loses all three water molecules at $110^\circ C$. Two H_2O molecules are added stepwise on standing in the air, but not the third one. 3) $K_2 [UO_2(SO_4)_2(H_2O)_2]$. In these three potassium compounds, a decrease in stability of the inner sphere of the complex ion was observed with an increase in molecular electrical conductivity.

Card 2/4

Aquo-oxalato Sulfate Compounds of Uranyl

S/078/60/005/007/022/043/XX
B004/B060

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
Akademii nauk SSSR (Institute of General and Inorganic
Chemistry imeni N. S. Kurnakov of the Academy of Sciences
USSR)

SUBMITTED: April 6, 1959

Card 4/4